UNITED STATES DEPARTMENT OF THE INTERIOR Formation symbols queried where identification doubtful. Stratigraphic column modified from Buddington and Chapin (1929) GEOLOGICAL SURVEY UNCONSOLIDATED DEPOSITS Greenstone schist with a small proportion interbedded or intercalated Alluvial and glacial deposits River alluvium, valley drift, till, glacial and glaciofluvial sand and limestone near base, wg; limestone, locally metamorphosed to marble, wl; gravel; probably unstratified for the most part. Possibly includes local schist with limestone and slate in varying proportions, ws glacial lacustrine deposits of clay, silt, and sand, and marine-bench and INTRUSIVE ROCKS terrace deposits of clay, silt, sand, and gravel STRATIFIED ROCKS Granite and granitic rocks As mapped probably includes varying amounts of dioritic rocks and some areas of metamorphosed sedimentary rocks Extrusive volcanic rocks Basaltic and andesitic lava, locally obsidian; minor proportion of interbedded breccia, tuff, and agglomerate, Tba; rhyolitic and and esitic volcanic rocks, Tra Diorite, granodiorite, and quartz diorite Diorite and dioritic rocks, dt; includes granodiorite, gd, and quartz Sandstone and conglomerate Sandstone with basal and intercalated conglomerate and thin coal seams diorite, qd, locally; also some small masses and marginal variants locally, Tsc;  $massive\ coarse\ conglomerate$ , Tc such as gabbro and other rocks of intermediate composition Schistose volcanic rocks, slate, and graywacke Schistose greenstone, predominantly porphyry breccia with intercalated beds of tuff and lava flows, black slate, and graywacke Mafic and ultramafic rocks Includes mafic and ultramafic rocks undifferentiated, ub; pyroxenite, px; dunite, dn; hornblende-rich gabbro, gb; and hornblendite, hb. Diorite MINERAL DEPOSITS present locally Partial list of mines, prospects, quarries and significant occurrences Limestone Closely folded, blue and gray Ag indicates silver; Au, gold; Ba, barium; Cr, chromium; Cu, copper; Fe, iron; Ls, limestone; M, marble; Intrusive rocks undifferentiated Mo, molybdenum; Ni, nickel; Pb, lead; Pd, palladium; Mapped solely by interpretation of aerial photographs in isolated areas or as extensions of known igneous masses. As mapped may include Limestone complexes of metamorphic rocks and intrusive igneous rocks Massive white KASAAN PENINSULA-KARTA BAY AREA 56, O.K., Parkview claims—Au, Cu, Zn Contact established in field 1. Alarm mine—Cu, Fe 57. Oregon claims-Au, Ag, Zn Solid where accurately located by detailed mapping; long dashed where Limestone, chert, quartzite, and conglomerate 2. Big Five claims—Cu 58. Polymetal lode—Zn, Pb Cherty limestone, chert, and quartzite in upper part; coarsely crystalline well established by reconnaissiance mapping; short dashed where ap-3. Cachelot claims—Cu, Au, Ag limestone and thin-layered black chert in lower part; thin basal con-59. Valparaiso group—Au, Ag, Pb, Zn proximately located, inferred, or gradational 4. Copper Center—Cu, Fe glomerate and calcareous arkose 5. Copper Queen claim—Cu, Fe HOLLIS-GRANITE MOUNTAIN-PIN 6. Haida mine—Cu, Fe, Mo Contact based solely on photogeologic interpretation PEAK AREA Long dashed where closely located between well-defined units; short 7. Iron Cap claims—Fe, Cu 60. Cascade group claims—Au, Zn, Pb dashed where approximately located between relatively ill-defined units 8. It mine—Cu, Fe Limestone and basalt 9. Mamie mine-Fe, Cu, Au, Ag Independent claims—Au, Cu, Pb, Zn Includes small amount of sandstone, 10. Mount Andrew mine-Fe, Cu, Au, Ag 62. Copper Hill claim—Cu, Au argillite, conglomerate, and tuff Indefinite contact 11. Peacock and Tacoma claims—Cu Based on fragmental field information or tenuous extension from field-63. Crackerjack mine and 12. Poorman mine—Fe, Cu, Au, Ag identified units by interpretation of aerial photographs claims-Au, Ag, Pb, Zn 13. Rich Hill mine-Cu, Au, Ag 64. Dawson mine-Au 14. Rush and Brown mine—Cu, Fe, Au, Ag 1 80 U ----? Massive limestone 65. Dew Drop, Rose claims-Au, Ag, Pb 15. Salt Chuck mine—Cu, Pd, Au, Ag Fault or shear zone established in 66. Flagstaff mine-Au, Ag, Cu, Pb 16. Shepard group claims field, showing dip and relative movment 67. Lucky Nell mine—Au, Ag, Cu, Pb, Zn (Brown and Metzdorf)—Cu, Au, Ag, Mo Dashed where approximately located; short dashed where inferred; dotted 68. Puyallup mine—Au 17. Stevenstown mine—Cu, Fe, Au 69. Saxe property—Au, Ag, Pb, Zn Sedimentary and volcanic rocks Graywacke, slate, conglomerate, and limestone interbedded with lava 18. Sunny Day prospect—Cu, Au, Ag thrown side 70. Stella, Monday claims—Au, Ag, Pb, Zn flows, breccia, and tuff in varying proportions; limestone metamor-19. Tolstoi group claims—Cu, Fe .\_\_\_. phosed to marble locally, Dsv; may be in part Silurian or older. Pre-20. Uncle Sam mine-Cu Fault or shear zone based on UNGROUPED 21. Venus claims-Fe, Cu, Zn dominantly graywacke and tuff, Dgt interpretation of aerial photographs 71. Baker Island prospects, Trace of linear feature presumably but not demonstrably related to fault 22. Young prospect—Cu claims, and occurrences-Mo or shear zone. Long dashed where well defined but discontinuous; HETTA INLET AREA 72. Big Harbor mine—Cu, Zn short dashed where poorly or vaguely expressed; dotted where concealed 73. Coronation Island prospects—Pb, Zn 23. Copper City mine and claims—Cu, Au, Ag, Zn Andesitic lava, breccia, and conglomerate 24. Copper Mountain claims—Cu 74. Dolly Varden claims—Cu, Au Conglomerate includes cobbles of lime-FOLDS 25. Corbin mine and claims—Cu, Au, Ag 75. Gould prospects (Sukkwan Island)—Cu stone. May be in part Silurian or older The generalized position of major structural axes are shown in figure 2 26. Gould prospects—Cu, Pb, Zn 76. Hatchet claim-Au 77. Khayyam mine—Cu, Au, Zn, Fe Cape Addington 27. Green Monster claims—Cu, Fe 78. Lime Point barite deposit—Ba 28. Hetta Mountain prospects—Cu Sedimentary rocks with interbedded Anticline showing trace of Syncline showing trace of 29. Houghton group claims—Cu, Fe 79. McCullough prospect—Cu 30. Jumbo group claims—Cu, Fe, Au, Ag, Mo andesitic volcanic rocks axial plane and plunge 80. Marble Heart claim-Pb axial plane and plunge Slate, limestone, and chert, with interbedded andesitic volcanic rocks. 81. Moonshine (of Dall Island) 31. Keete Inlet—Cu Dsa; conglomerate and graywacke, Dcg Dashed where approximately located; short dashed where inferred; que-32. Jack Wilcox prospect-Au prospects and claim-Ag, Pb 82. Mount Burnett occurrences-Fe, Cr Marion claim-Cu, Pb ried where probable 33. Sultana claims—Cu, Fe, Ni, Zn, Pb 83. Nancy claim—Cu -84. Noyes Island (Brown NIBLACK-NORTH ARM Overturned syncline and Metz claim-Mo, Ni? Predominantly graywacke; locally red, greenish-gray, or gray sandstone, (MOIRA SOUND) AREA 85. Port San Antonio-Pb, Zn interbedded conglomerate and sandstone, or shale. Platy or thin-ATTITUDE OF BEDDING, FOLIATION, 34. Cymru mine—Cu 86. St. Ignace Island occurrences—Ba bedded to massive limestone present in upper part, at least locally OR SCHISTOSITY 35. Dama group prospects—Cu 87. Shellhouse, Miller claims-Cu 36. Lookout group claims—Cu, Au, Ag 88. Shelton prospect—Cu FIELD PHOTOGEOLOGIC
MEASUREMENT INTERPRETATION PHOTOGEOLOGIC 37. Niblack mine-Cu, Au, Ag, Zn, Pb 89. Silver Star prospect—Au, Ag, Pb, Zn, Cu 38. Wakefield group claims—Cu 90. Stumble-On prospect—Cu, Au, Ag, Zn 39. Westlake claims-Au, Pb, Zn Limestone, sandstone, and argillite Strike and dip of beds LIMESTONE AND MARBLE HELM BAY AREA Massive limestone with locally interbedded and intercalated conglomerate, sandstone, or argillite, SIc; massive limestone with small proportion of 91. Breezy Bay occurrences—M 40. Alexander claims—Au Strike of vertical beds intercalated clastic strata, SI; coarse conglomerate, and sandy or argilla-92. Coco Harbor occurrences—M 41. Midnight Sun claim-Au 93. Dickman Bay occurrences—M 42. Gold Standard mine and claims-Au Generalized or approximately located strike and dip of beds 94. Dolomi occurrences—M 43. Helm Bay King mine—Au 95. 95a. and 95b. Heceta Island 44. Hoffman claim—Au Generalized or approximately located strike of vertical beds occurrences-M 45. Puzzler claim—Au Graywacke, slate, and andesitic volcanic rocks 96. High Point (Dall Island) occurrences—M DOLOMI-CHOLMONDELEY Graywacke and dark-colored to black slate with small proportion of an-97. Kosciusko Island occurrences—M SOUND AREA desitic volcanic rocks, conglomerate, and limy sedimentary rocks, SOgs. 98. Vermont Marble Co. Mine or prospect At least locally a marked disconformity is probable within the sequence prospects (Marble Islands)-M 46. Alpha group claim—Au, Cu Number refers to accompanying list on left; those not numbered are which nearly everywhere exhibits essentially uniform stratigraphic 99. Mission Alaska Co. quarries and 47. Croesus group claim—Au characteristics. Units predominantly of andesitic volcanic rocks and not listed prospects (Orr, Marble Island)—M 48. Equator group prospects—Au, Cu conglomerate, Sav, distinguished locally are associated with graywacke, 100. North Arm claims-M 49. Fortune claims-Au, Ag, Cu black slate, limestone, and tuff in varying proportions 101. Shamrock Inlet quarry—M Significant mineral occurrences 50. Frisco claims—Au Little or no development; locations are general; may include small lime-102. Tokeen quarries—M METAMORPHOSED ROCKS OF UNDETERMINED AGE 51. Golden Fleece mine (s)-Au, Ag stone and marble quarries. Number refers to accompanying list 103. View Cove occurrences-M 52. Hope group—Au, Pb 104. Lone Star 53. Kid group claim-Pb, Zn, Au on left limestone quarry (View Cove)—Ls 54. Lucky Boy prospect 105. Green Inlet occurrences—Ls Limestone or marble quarry (Dora Lake)—Zn, Pb, Au, Cu, Ag Number refers to accompanying list on left 106. Wadleigh Island prospect—Ls 55. Moonshine group claims-Ag, Pb, Zn Wrangell-Revillagigedo belt of metamorphic rocks Crystalline schist and phyllite, sph;. phyllite, quartzite, and locally slate, ph This list includes all important mines, quarries, prospects, and claims, and most of those less prominent. Many prospects are shown on the map which have not been listed. Significant mineral occurrences are shown where unevaluated or where potentiality is indicated. The location of many lesser known prospects and occurrences are approximated from small-scale sketch maps or incomplete or vague information; hence, a great variance in reliability of position is inherent. 0. Mapping by photogeologic methods only 1. Buddington, A. F., and Chapin, Theodore, 1929, plate 1, 2. Wright, C. W., 1915, plate 15, 1:62,500; and Warner, L. A., and Goddard, E. N., 1960, 1:62,500. 3. Eberlein, G. D. (written communication), 1:31,680. 4. Kennedy, G. C., and Walton, M. S., 1946, plate 22, approxi-GEOLOGIC MAP OF THE CRAIG QUADRANGLE, SOUTHEASTERN ALASKA Base map by Topographic Division U.S. Geological Survey mately 1 inch to 1 mile. 5. Kennedy, G. C., 1953, plate 1, 1 inch to 1,000 feet (part of area shown); and Wright, C. W., 1915, plate 5, 1:62,500. 6. Robinson, G. D., 1946, plates 7 and 8, approximately 1 inch to 7. Eberlein, G. D. (written communication), approximately 1:40.000. COMPILATION DIAGRAM CONTOUR INTERVALS 200 AND 1000 FEET

DOTTED LINES REPRESENT HALF-INTERVAL CONTOURS

AREAS NOT SURVEYED IN DETAIL INDICATED BY BROKEN LINES

DATUM IS MEAN SEA LEVEL

DEPTH CURVES IN FEET-DATUM IS MEAN LOWER LOW WATER
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER

BULLETIN 1108-B

EXPLANATION